AMENDMENTS TO THE CLAIMS

1. (Currently amended) A luminescent device comprising a gaseous tritium light source (GTLS) within a housing, the housing being within a magnetic outer casing, the luminescent device ~~which provides~~ providing a light output of pre-determinable intensity, wherein the device is sized and shaped to be ~~housed in a sample holder of~~ removably inserted in an individual well of a standard size well plat for use in a light measuring apparatus, the apparatus selected from the group consisting of a luminometer, a fluorometer, a spectrophotometer, a scintillation counter, a photomultiplier, an avalanche photodiode or a CCD camera.

2. (Original) A device according to Claim 1, wherein the GTLS comprises 10 to 20 mCi of tritium.

3. (Currently amended) A device according to Claim 1, wherein the ~~GTLS is located with an~~ outer casing has ~~having~~ at least one optically transparent or translucent portion.

4. (Canceled)

5. (Previously amended) A device according to Claim 3, wherein the transparent or translucent portion comprises a neutral density filter.

6. (Previously amended) A device according to Claim 3, wherein the transparent or translucent portion is formed from glass or plastic.

7. (Previously amended) A device according to Claim 1, wherein the device further comprises colouring means to alter the colour of the light output of the GTLS.

8 - 10. (Canceled)

11. (Previously presented) A device according to Claim 1, wherein said device comprises a scalebar graticule.

12. (Previously presented) A device according to Claim 1, wherein said device comprises a filter array.

13. (Previously presented) A kit comprising two or more luminescent devices according to Claim 1, each of said devices providing a light output of a distinct intensity to the other devices of said kit.

14. (Currently amended) A kit according to Claim 13, further comprising a magnetic handling tool ~~and wherein each of said devices includes a magnetic component~~.

15. (Currently amended) A kit according to Claim 13, ~~comprising three or more~~ further comprising an additional one or more devices, each having a light output of a distinct intensity to the other devices of said kit.

16. (Currently amended) A light measuring apparatus comprising:

(a) a luminescent device as claimed in Claim 1, the luminescent device removably inserted into an individual well of a standard size well plate, the standard size well plate housed in a sample holder of said apparatus;

(b) means for obtaining a reading of light output from the luminescent device; and

(c) means for adjusting the reading of light output of the apparatus to the pre-determined intensity of the light output of the luminescent device.

17. (Previously presented) An apparatus according to Claim 16, which is selected from the group consisting of a luminometer, a fluorometer, a spectrophotometer, a scintillation counter, a photomultiplier, an avalanche photodiode or a CCD camera.

18. (Currently amended) A method of analyzing a sample, said method comprising:

(a) placing a luminescent device according to claim 1 in an individual well of a standard size well plate;

(b) placing an analyte sample in another well of the standard size well plate;

(c) placing the standard size well plate in a sample holder of the apparatus;

(d) measuring the intensity of light emitted by the luminescent device;

(e) adjusting the reading of light output of the apparatus to the pre-determined intensity of the light output of the luminescent device; and

(f) obtaining a reading of light output from the sample;

wherein the luminescent device is left in the apparatus during use so that the

calibration of the machine may be tested whilst measuring the analyte sample.

~~i) calibrating an apparatus able to detect light output using a device as claimed in Claim 1;~~

~~ii) inserting said sample into the calibrated apparatus and obtaining a reading thereof.~~

19. (Currently amended) A method as claimed in Claim 18, wherein the sample ~~comprises~~ molecules or living cells.

20. (Canceled).

21. (New) A device according to claim 1, wherein the standard size well plate is a PCR plate, a conical well plate, or a 6, 12, 24, 36, 48, 96, 384 or 1536 well plate.

22. (New) A method for calibrating an apparatus according to claim 16 comprising the steps of:

(a) obtaining a reading of light output from the luminescent device; and

(b) adjusting the reading of light output of the apparatus to the pre-determined intensity of the light output of the luminescent device;

wherein the luminescent device is left in the apparatus during use so that the calibration of the machine may be tested whilst measuring the analyte sample.